

Grain Dryers Market Forecasts to 2032 – Global Analysis By Mechanism (Batch Dryers and Continuous Flow Dryers), Mobility (Stationary Grain Dryer and Mobile Grain Dryer), Capacity (Below 10 MT/h, 10-20 MT/h, 20-30 MT/h and Above 30 MT/h), Fuel Type, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Grain Dryers Market is accounted for \$3.84 billion in 2025 and is expected to reach \$6.09 billion by 2032 growing at a CAGR of 6.8% during the forecast period. Grain dryers are agricultural machines designed to reduce the moisture content of harvested grains, ensuring safe storage and preventing spoilage. They use controlled heat and airflow to remove excess moisture from crops like wheat, corn, rice, and soybeans. By maintaining optimal moisture levels, grain dryers protect grain quality, minimize post-harvest losses, and enhance storage life. These systems range from small-scale portable units to large, industrial drying facilities used in commercial farming operations.

According to a comprehensive review in Food Engineering Reviews, grain drying is the most widely used preservation method in agricultural processing accounting for a substantial portion of industrial energy usage—ranging from 27% to 70% depending on the final product.

Market Dynamics:

Driver:

Growing demand for efficient post-harvest technologies

The rising need to minimize post-harvest losses, which account for 10–15% of global grain production, is driving demand for grain dryers. Modern dryers enhance storage longevity, reduce spoilage, and maintain grain quality, aligning with food security goals. Furthermore, climate change-induced weather unpredictability necessitates reliable drying solutions to prevent crop damage. Governments and agribusinesses are increasingly investing in advanced drying technologies, particularly in regions with high agricultural output. Additionally, mechanization trends in developing economies and the shift toward precision agriculture further propel market growth.

Restraint:

High initial capital investment

The substantial upfront cost of grain dryers limits adoption among small-scale farmers and cooperatives. Moreover, operational expenses, including fuel and maintenance, add financial strain. This barrier is pronounced in developing regions with limited access to credit facilities. While subsidies and financing options exist, inconsistent policy support and fragmented supply chains hinder accessibility. Furthermore, the preference for traditional drying methods in cost-sensitive markets restrains market penetration, particularly in Asia and Africa.

Opportunity:

Rise in demand for organic and sustainable agriculture

Grain dryers with reduced carbon footprints, such as solar-assisted or biomass-powered models, align with sustainability certifications. Stringent regulations on greenhouse gas emissions encourage innovation in low-emission technologies. Additionally, governments in the EU and North America are offering incentives for sustainable agri-equipment, creating lucrative opportunities. Moreover, the integration of IoT for real-time moisture monitoring enhances appeal among tech-driven organic farms.

Threat:

Competition from alternative drying technologies

Traditional methods like sun drying and mechanical ventilation remain prevalent due to lower costs, especially in tropical regions. Innovations in hybrid drying systems, such as

solar-air combinations, pose competitive threats by offering cost and energy advantages. Furthermore, delayed technological adoption in emerging markets due to cultural resistance limits market expansion. The lack of standardized regulations for dryer efficiency also creates ambiguity, allowing alternatives to coexist.

Covid-19 Impact:

The Covid-19 pandemic disrupted supply chains, delaying equipment production and installation. Labor shortages and lockdowns slowed farm operations, temporarily reducing dryer demand. However, post-2020, heightened focus on food security and supply chain resilience spurred investments in automated drying solutions. Government stimulus packages in the U.S. and EU aided market recovery, while Asia Pacific saw delayed growth due to prolonged restrictions. The crisis accelerated the adoption of contactless and energy-efficient technologies, reshaping long-term market strategies.

The continuous flow dryers segment is expected to be the largest during the forecast period

The continuous flow dryers segment is expected to account for the largest market share during the forecast period due to high efficiency in large-scale operations, handling 5–50 MT/h capacities. Their ability to maintain consistent grain quality with minimal manual intervention suits industrialized farms. North America and Europe dominate adoption, driven by large farm sizes and tech-driven agriculture. Furthermore, advancements in automation, such as moisture sensors, enhance their appeal.

The above 30 MT/h segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the above 30 MT/h segment is predicted to witness the highest growth rate, fueled by expanding commercial farming and consolidation of agricultural land. High-capacity dryers reduce operational costs per ton, appealing to agribusinesses and export-oriented economies. Additionally, government initiatives in India and Brazil to modernize post-harvest infrastructure bolster demand. The segment's integration with smart farming systems further supports its rapid adoption.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by its highly mechanized agricultural sector and large-scale

farming operations. The U.S. and Canada contribute a larger part of the region's demand, supported by robust government initiatives like the USDA's Farm Storage Facility Loan Program, which subsidizes grain-drying infrastructure. Additionally, the region's focus on reducing post-harvest losses—critical for its \$150 billion annual grain production—fuels adoption. Key players such as GSI Group and AGCO bolster innovation, with IoT-enabled dryers gaining traction. Furthermore, the presence of key players like GSI Group and AGCO strengthens regional supply chains.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid agricultural modernization and population growth. China and India, which produce over 600 million metric tons of grains annually, are central to this growth. Government initiatives such as India's PM-KISAN scheme and China's agri-tech modernization fund are indeed prioritizing post-harvest infrastructure. Southeast Asia's rice-producing nations, such as Vietnam and Thailand, are adopting high-capacity dryers to meet export quality standards. Additionally, foreign investments, including Japan's partnership with ASEAN for sustainable drying solutions, further support regional expansion.

Key players in the market

Some of the key players in Grain Dryers Market include GSI (Grain Systems Inc.), Cimbria, Buhler, Sukup Manufacturing, Brock Grain Systems, Mathews Company, Delux Manufacturing Company, AGI Tramco, CFCAI Group, PETKUS Technologie, Alvan Blanch, Fratelli Pedrotti, Mecmar, SKIOLD, POLnet, Stela, Shivers, Western Grain Dryer Inc., Agridry Dryers Pty Ltd, Satake Corporation and Muyang Group.

Key Developments:

In April 2025, Sukup Manufacturing Co. takes pride in listening to our partners and understanding their evolving needs within the industry. The recent addition of Enclosed Belt Conveyors to our Material Handling Product Line is a direct result of that dedication. These conveyors are designed to move higher capacities of grain over longer distances, using less horsepower than standard drag conveyors. This makes them a more efficient option for certain applications, especially in commercial grain systems where capacity and energy use are key considerations.

In November 2024, GSI in mid-September announced it's introducing a new line of

mixed-flow grain dryers, to be available for the 2025 growing season. That, according to the company, gives it one of the broadest ranges of dryer types on the market from any one brand. According to GSI's product manager for grain conditioning products, Alan Lockwood, the new mixed-flow dryers offer a number of advantages compared to cross-flow or screened basket-style dryers.

In February 2022, Brock introduced the TrueGrain™ Moisture Sensor System, which utilizes Parallel Sensing Technology™ to provide accurate moisture readings during grain drying. This system is designed to reduce variability and improve drying precision.

Mechanisms Covered:

Batch Dryers

Continuous Flow Dryers

Mobility's Covered:

Stationary Grain Dryer

Mobile Grain Dryer

Capacities Covered:

Below 10 MT/h

10-20 MT/h

20-30 MT/h

Above 30 MT/h

Fuel Types Covered:

Diesel

Natural Gas

Biofuels

Electricity

Applications Covered:

Cereals Drying

Pulses Drying

Oilseeds Drying

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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